Designing Floats

Name: _____ Date: _____

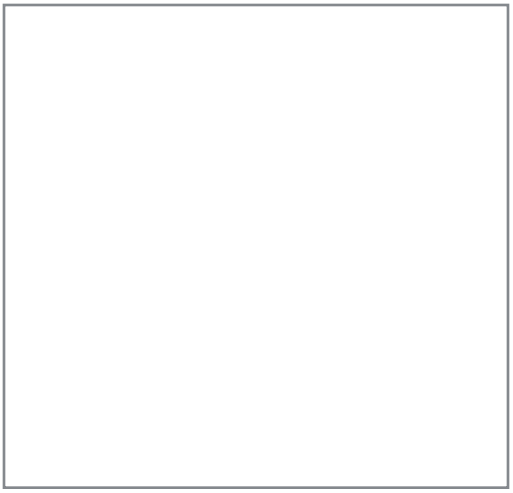
Group: _____ Group Role: _____

Prototype 1: Floating at Surface of water

Draw a sketch of what you are going to design and build. Be sure to label all parts involved and show vectors with labels to show forces involved.

Observations from test

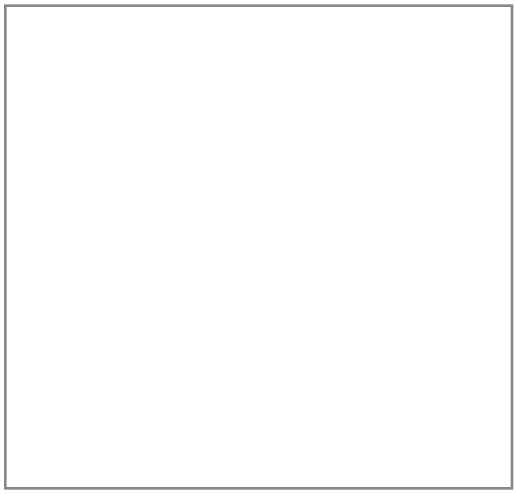
Observations of group participation



Prototype 1: Floating at Surface of pycnocline

Draw a sketch of what you are going to design and build. Be sure to label all parts involved and show vectors with labels to show forces involved.

Observations from test



Observations of group participation

Analyze and conclude:

1) How do the prototypes demonstrate buoyancy?

2) What is a pycnocline and what causes it?

3) Did your prototypes successfully float where they needed to be? Explain and give evidence.

4) What was the relationship between density, buoyancy, and mass?